

SECTION 6

6.07 PRESSURE REGULATING VALVES:

A pressure regulating valve (PRV) is used for keeping downstream pressure at a uniform pressure less than that in the upstream main.

Pressure regulating valves shall conform to MS-9. They shall be sized so that the velocity through the valve at maximum demand does not exceed 25 feet per second. If a wide range of flow rates is anticipated, more than one valve may be required. Care shall be taken to ensure adequate pressure differential across the valve under all ranges of flow to accomplish hydraulic throttling. When pressure differentials greater than 45 psi are expected, or when the downstream pressure will be low relative to the differential, special valve materials or a special valve design may be required.

Pressure regulating valves shall be properly supported, and shall have an adequate clearance above and below the valve to facilitate servicing. A manual bypass is required for all single valve installations. Telemetry of data may be required. Each PRV shall have a gate valve on each side for isolation. General arrangement shall be as shown on Sheets 41 through 44 of the Standard Drawings.